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IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Applicant(s): **Hongbin Zhang et al.**

Case: **TYCO/003** Confirmation #: **3259**

Serial No.: **10/796,930** Filed: **3/10/04**

Examiner: **unknown** Group Art Unit: **2872**

Title: **METHODS AND APPARATUS FOR POLARIZATION CONTROL**

**POWER OF ATTORNEY/
CHANGE OF CORRESPONDENCE ADDRESS**

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

Tyco Telecommunications (US) Inc., a Delaware corporation, as Assignee of the entire interest of the above-identified patent application (copies of Assignment in the chain of title are attached), hereby revokes all powers of attorney previously given and appoints the following attorneys and agents to prosecute and transact all business in the United States Patent & Trademark Office connected therewith.

Attorney Name(s): Attorneys and/or Agents of CUSTOMER #26,291

Please send all correspondence to:

**CUSTOMER #26,291
MOSER, PATTERSON & SHERIDAN, LLP
595 Shrewsbury Avenue
Suite 100
Shrewsbury, New Jersey 07702
Attention: John Maldjian**


Telephone calls should be made to JOHN MALDJIAN at: telephone number 732-530-9404 and fax number 732-530-9808.

2

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Please mark the record to reflect new Attorney Docket No.: TYCO/003.

Date: 8/3/04


William C. Marra
Vice President & CTO Research,
Development, Engineering &
Network Operations
Tyco Telecommunications (US) Inc.

1
former PTO/SB/15 (8-00) Modified LDUKAM

ASSIGNMENT OF UTILITY APPLICATION

Docket Number

TYCOTE 3.0-003

Whereas, I, Hongbin Zhang of11 Mallard Lane, Marlboro, NJ 07746

hereafter referred to as assignor, have with others invented certain new and useful improvements in

METHODS AND APPARATUS FOR POLARIZATION CONTROL☒ for which an application for a United States Letters Patent was filed on March 10, 2004Application Number 10/798,930☐ for which an application for a United States Letters Patent was executed by me on _____ andWhereas, Tyco Telecommunications (US) Inc.a corporation of Delaware herein referred to as "assignee" whose mailing address is60 Columbia Road, Morristown, New Jersey 07960

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

3/30/2004
(Date)[Signature]
(Signature)State of New Jersey) SS:
County of Monmouth)

On this 30th day of March, 2004 before me personally came the above-named Hongbin Zhang, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

[Signature]
(Notary Public)

Laura Fish
Notary Public
State of New Jersey

My Commission Expires ON June 25, 2006☒ Total of 4 forms are submitted.

LD-528A

former PTO/SB/15 (8-00) Modified LDI/GM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number TYCOTE 3.0-003
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Whereas, I, Li Liu of
310 N. Broad Street, Apt. F10; Carneys Point, New Jersey 08069
hereafter referred to as assignor, have with others invented certain new and useful improvements in
METHODS AND APPARATUS FOR POLARIZATION CONTROL
☒ for which an application for a United States Letters Patent was filed on March 10, 2004
Application Number 10/796,930
☐ for which an application for a United States Letters Patent was executed by me on _____
and _____

Whereas, Tyco Telecommunications (US) Inc.
a corporation of Delaware herein referred to as "assignee" whose mailing address is
60 Columbia Road; Morristown, New Jersey 07960
is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof
is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said
assignee my entire right, title and interest for the United States of America and all other countries in and to said
invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue
applications and patents applied for or granted therefor in the United States of America and all other countries, for
said invention, including without limitation all applications and patents for said invention claiming priority or benefit of
the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit
and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said
improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the
undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further
remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters
Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said
assignee or its representatives all facts known to the undersigned respecting said improvements, whenever
requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may
become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid
assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the
expenses incident to said applications to be borne and paid by said assignee.

4/12/2004 (Date) [Signature] (Signature)

State of New Jersey) SS:
County of Monmouth)

On this 12th day of April, 2004 before me personally came the above-named Li Liu, to
me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the
same was executed by him/her of his/her own free will for the purposes therein set forth.

[Signature]
(Laura Fish)
Notary Public
State of New Jersey
My Commission Expires On June 23, 2006

☒ Total of 4 forms are submitted.

LD-528A

former PTO/SB/16 (8-00) Modified LDU&M

ASSIGNMENT OF UTILITY APPLICATION	Docket Number TYCOTE 3.0-003
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Whereas, I, R. Brian Jander of
109 Tree Top Circle; Freehold, New Jersey 07728
 hereafter referred to as assignor, have with others invented certain new and useful improvements in
METHODS AND APPARATUS FOR POLARIZATION CONTROL
☒ for which an application for a United States Letters Patent was filed on March 10, 2004
 Application Number 10/796,930
☐ for which an application for a United States Letters Patent was executed by me on _____
 and _____

Whereas, Tyco Telecommunications (US) Inc.
 a corporation of Delaware herein referred to as "assignee" whose mailing address is
60 Columbia Road; Morristown, New Jersey 07960
 is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof
 is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said
 assignee my entire right, title and interest for the United States of America and all other countries in and to said
 invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue
 applications and patents applied for or granted therefor in the United States of America and all other countries, for
 said invention, including without limitation all applications and patents for said invention claiming priority or benefit of
 the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit
 and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said
 improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the
 undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further
 remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters
 Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said
 assignee or its representatives all facts known to the undersigned respecting said improvements, whenever
 requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may
 become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid
 assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the
 expenses incident to said applications to be borne and paid by said assignee.

3/30/04 (Date) R. Brian Jander (Signature)

State of New Jersey) SS:
 County of Monmouth)

On this 30th day of March, 2004 before me personally came the above-named R. Brian Jander
Jander, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me
 that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Laura Fish
 (Notary Public)

Laura Fish
 Notary Public
 State of New Jersey

My Commission Expires On June 25, 2006

☒ Total of 4 forms are submitted.

LD-5281

former PTO/SB/15 (5-00) Modified LPL/KAM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number TYCOTE 3.0-003
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Whereas, I, Alexei N. Pilipetski of
16 Ratsigh Pass; Colts Neck, New Jersey 07722
hereafter referred to as assignor, have with others invented certain new and useful improvements in
METHODS AND APPARATUS FOR POLARIZATION CONTROL
☒ for which an application for a United States Letters Patent was filed on March 10, 2004
Application Number 10/796,930
☐ for which an application for a United States Letters Patent was executed by me on _____
and _____

Whereas, Tyco Telecommunications (US) Inc.
a corporation of Delaware herein referred to as "assignee" whose mailing address is
60 Columbia Road; Morristown, New Jersey 07960
is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof
is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said
assignee my entire right, title and interest for the United States of America and all other countries in and to said
invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue
applications and patents applied for or granted therefor in the United States of America and all other countries, for
said invention, including without limitation all applications and patents for said invention claiming priority or benefit of
the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit
and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said
improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the
undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further
remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters
Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said
assignee or its representatives all facts known to the undersigned respecting said improvements, whenever
requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may
become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid
assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the
expenses incident to said applications to be borne and paid by said assignee.

4/12/04 (Date) Alexei Pilipetski (Signature)

State of New Jersey) SS:
County of Monmouth)

On this 12th day of April, 2004, before me personally came the above-named Alexei N. Pilipetski, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Laura Fish
Notary Public
State of New Jersey
My Commission Expires On June 25, 2004

☒ Total of 4 forms are submitted.

LD-528\475744_1